

ABSTRACT

An object of the present invention is, by utilizing carbon fibers as its constituent material, to provide a thermal-acoustic insulation material having excellent properties in durability, compression resilience, lightness, fireproofness, and non-galvanic corrosiveness. The material of the present invention comprises a wool-like carbon fiber aggregate composed of carbon fibers having an average fiber diameter of $0.5\ \mu\text{m}$ to $5\ \mu\text{m}$ and an average fiber length of 1 mm to 15 mm and the contact points of the fibers are bonded together by a thermosetting resin. The galvanic current of the material is $10\ \mu\text{A}$ or lower in a galvanic cell comprising an electrode composed of the thermal-acoustic insulation material, the other electrode composed of an aluminum plate, and an electrolytic solution composed of 0.45 wt.% sodium chloride aqueous solution.